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## New Jersey Agricultural Statistics Service

# FARM FACTS "FACT FINDERS FOR AGRICULTURE"

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New Jersey Agricultural

Statistics Service P.O. Box 330

Date: August 21, 2002

### U.S. Agricultural Chemical Usage 2001 Fruit Summary August 2002

#### United States Blueberries

Herbicides were applied on 65 percent of the blueberry acres in the four program states. Insecticides and fungicides were used on 89 and 87 percent of the acreage, respectively. The most popular insecticide was phosmet, used on 52 percent of the acreage, followed closely by azinphos-methyl at 47 percent. For herbicides, diuron was the most commonly used, at 30 percent of the acres. Captan (63 percent of acres); benomyl (61 percent of acres); and ziram (45 percent of acres) were the three most commonly used fungicides.

#### New Jersey Blueberries

Herbicides were applied to 43 percent of the blueberry acres in New Jersey. Insecticides were used on 95 percent of the acreage, and fungicides on 88 percent of bearing acreage. The insecticide used most often was methomyl, applied to 53 percent of the acreage, followed by phosmet at 45 percent. The most commonly used herbicide was norflurazon, applied to 35 percent. The three fungicides used most often were ziram (69 percent of acres); captan (66 percent of acres); and benomyl (64 percent of acres).

Blueberries: Agricultural Chemical Applications, Program States, 2001 1/

	Blueberries: Agricultural Chemical Applications, Program States, 2001 1/						
Agricultural Chemical	Area Applied	Applications	Rate Per Application	Rate Per Crop Year	Total Applied		
	Percent	Number	Pounds	per Acre	1000 lbs		
Herbicides							
Diuron	30	1.1	0.87	1.03	9.9		
Glyphosate	27	1.4	0.57	0.81	7.1		
Hexazinone	3	1.0	0.44	0.44	0.5		
Napropamide	*	1.0	1.44	1.44	0.3		
Norflurazon	14	1.1	1.97	2.31	10.3		
Oryzalin	6	1.2	1.54	1.95	3.6		
Paraquat	10	1.3	0.28	0.37	1.2		
Sethoxydim	2	1.2	0.14	0.18	0.1		
Simazine	24	1.1	1.19	1.40	10.6		
Terbacil	21	1.1	0.48	0.55	3.7		
Insecticides							
Azinphos-methyl	47	1.9	0.52	1.03	15.6		
Bt (Bacillus thur.)2	/ 8	1.4					
Carbaryl	25	1.8	1.60	2.88	23.4		
Diazinon	13	1.4	0.70	1.03	4.4		
Esfenvalerate	9	1.3	0.04	0.06	0.2		
Imidacloprid	10	1.3	0.05	0.07	0.2		
Malathion	36	2.2	1.56	3.43	40.1		
Methomyl	33	1.8	0.72	1.31	14.1		
Petroleum distillate	2	1.1	16.04	18.01	9.8		
Phosmet	52	2.1	0.82	1.73	29.1		
Spinosad	*	1.1	0.06	0.07	3/		
Tebufenozide	4	1.0	0.21	0.22	0.3		
Fungicides							
Benomyl	61	1.8	0.47	0.85	16.9		
Calcium polysulfide	3	1.7	19.51	33.82	30.5		
Captan	63	2.9	1.99	5.84	118.4		
Chlorothalonil	15	1.2	2.65	3.32	15.7		
Copper hydroxide	4	1.5	2.13	3.37	3.8		
Copper sulfate	1	1.7	1.82	3.23	1.3		
Fenbuconazole	32	1.6	0.09	0.14	1.4		
Fosetyl-al	5	1.9	3.36	6.63	10.1		
Iprodione	4	1.5	0.65	1.01	1.3		
Mefenoxam	*	1.0	0.53	0.56	0.1		
Triforine	7	1.1	0.25	0.29	0.6		
Ziram	45	2.1	2.41	5.14	75.3		
Other Chemicals							
Gibberellic acid	8	2.3	0.04	0.10	0.3		

 <sup>\*</sup> Area applied is less than one percent.

<sup>1/</sup> Bearing acres in 2001 for the 4 program states were 32,200 acres. States included are GA, MI, NJ and OR.

<sup>2/</sup> Rates and total applied are not available because amounts of active ingredient are not comparable between products.

<sup>3/</sup> Total applied is less than 50 lbs.

Blueberries: Pesticide, Bearing Acreage,

Percent of Area Receiving Applications and Total Applied, Program States and Total, 2001

61.1	Bearing			Are	a Receiving an	nd Total	l Applied		
State	Acreage	Н	erbicide	Insecticide 1/		Fungicide		Other Chemicals	
	Acres	Pct	1000 lbs	Pct	1000 lbs	Pct	1000 lbs	Pct	1000 lbs
GA	4,600	79	10.0	65	6.9	83	22.0	56	0.9
MI 2/	17,400	71	18.3	98	95.2	90	155.7		
NJ 2/	7,400	43	12.4	95	24.5	88	55.5		
OR 2/	2,800	65	7.4	58	13.5	74	44.4		
Total	32,200	65	48.1	89	140.2	87	277.5	10	1.0

<sup>1/</sup> Total Applied excludes Bt's (Bacillus thuringiensis) and other biologicals. Quantities are not available because amounts of active ingredient are not comparable between products.

2/ Insufficient reports to publish data for one or more pesticide classes.

Blueberries: Agricultural Chemical Applications, New Jersey, 2001 1/

Agricultural Chemical	Area Applied	Applications	Rate Per Application	Rate Per Crop Year	Total Applied
	Percent	Number	Pounds	per Acre	1000 lbs
Herbicides					
Diuron	31	1.1	1.08	1.29	2.9
Glyphosate	4	1.6	1.04	1.69	0.4
Norflurazon	35	1.1	2.16	2.52	6.6
Terbacil	28	1.2	0.51	0.62	1.3
Insecticides					
Carbaryl	23	1.2	2.03	2.53	4.2
Imidacloprid	34	1.4	0.05	0.07	0.2
Malathion	25	1.8	1.38	2.59	4.7
Methomyl	53	2.3	0.68	1.63	6.4
Phosmet	45	1.5	0.79	1.20	4.0
Fungicides					
Benomyl	64	1.2	0.36	0.46	2.2
Captan	66	3.4	1.79	6.12	30.0
Fenbuconazole	14	1.4	0.09	0.13	0.1
Ziram	69	1.8	2.16	4.06	20.7

<sup>1/</sup> Bearing acres in 2001 for New Jersey were 7,400 acres.

#### **United States Peaches**

Fungicide use was reported on 92 percent of the peach acreage in the five program states. Michigan reported fungicide use on all of their peach crop. All other program states ranged from 88 to 99 percent of the acres. Insecticides were applied to 91 percent of the acreage, with Georgia treating their entire crop. Herbicide use was reported on 59 percent of the peach acreage. New Jersey had the lowest percent treated, reporting use on only 45 percent of the crop.

#### New Jersey Peaches

New Jersey's herbicide usage, at 45 percent of bearing acreage, was the lowest of the four program states. The herbicide used most often was diuron, at 34 percent, with norflurazon not far behind, at 26 percent. Azinphos-methyl, at 88 percent, was the most popular insecticide. Sulfur, at 93 percent, was the fungicide of greatest choice for growers, followed by copper resinate, at 85 percent, and propiconazole, at 82 percent.

Peaches: Pesticide, Bearing Acreage,

Percent of Area Receiving Applications and Total Applied, Program States and Total, 2001

			Area Receiving and Total Applied  Area Receiving and Total Applied							
State	Bearing Acreage	He	rbicide		cticide 1/	Fungicide		Other Chemicals		
	Acres	Pct	1000 lbs	Pct	1000 lbs	Pct	1000 lbs	Pct	1000 lbs	
CA 2/	76,000	51	94.9	88	1,751.4	88	1,353.6	18	13.0	
GA 3/	15,000	95	25.2	100	136.7	99	608.5			
MI 3/	4,500	59	3.1	99	19.8	100	118.3			
NJ 3/	8,000	45	17.0	98	64.9	98	369.8			
SC 3/	16,000	69	87.7	95	132.5	97	997.4			
Total	119,500	59	227.9	91	2,105.6	92	3,447.8	12	13.4	

Total Applied excludes Bt's (Bacillus thuringiensis) and other biologicals. Quantities are not available because amounts of active ingredient are not comparable between products.

<sup>2/</sup> Acreage in California includes nonbearing acres. Total applied may include applications of some active ingredients made only to nonbearing acres.

<sup>3/</sup> Insufficient reports to publish data for one or more pesticide classes.

Rate Per   Application   Crop Year   Application   Crop Year   Applied	Peaches: Agricultural Chemical Applications, Program States, 2001 1/						
Chemical   Appnex   Percent   Number   Pounds per Acre   1000 lbs	J	Ŭ Anniicati					
Herbicldes	Chemical			<u> </u>	-		
2,4-D, Dimeth. salt * 1.6 0.76 1.28 1.2 Diuron 9 1.0 1.00 1.00 1.08 11.8 Diuron 9 1.0 1.00 1.00 1.08 11.8 Napropamide * 1.1 1.9 0.71 1.38 68.0 Napropamide * 1.1 2.22 2.61 2.5 Norflurazon 5 1.1 1.3 1.3 1.4 OXYLURIEN 13 1.3 1.4 1.5 1.27 1.7 OXYLURIEN 13 1.3 1.4 1.5 1.27 1.7 OXYLURIEN 28 1.9 0.53 1.04 35.3 Pendimethalin 3 1.0 1.85 1.95 7.4 Simazine 29 1.1 1.24 1.46 50.5 Terbacil 2 1.0 0.42 0.46 1.2 Terbacil 2 1.0 0.42 0.46 1.2 Terbacil 2 1.5 Carbaryl 12 1.5 Terbacil 2 1.5 Carbaryl 15 1.5 1.5 1.5 1.5 1.5 1.5 Carbaryl 160 20 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Translatint day	Percent	Number	Pounds p	er Acre	1000 lbs	
2,4-D, Dimeth. salt   *   1.6   0.76   1.28   1.28   1.10   1.00   1.00   1.08   11.8   61.9   61.9   1.00   1.02   1.08   11.8   68.0   68.		9	1 1	0.85	0 93	9 7	
Clyphosate							
Napropamide   *   1.1   2.22   2.61   2.5   Norflurazon   5   1.1   1.39   1.56   9.1   Ovyzalin   1   1.1   1.15   1.27   1.7   Oxyfluorfen   13   1.3   0.49   0.64   10.1   Paraquat   28   1.9   0.53   1.04   35.3   Pendimethalin   3   1.0   1.85   1.95   7.4   Simazine   29   1.1   1.24   1.46   50.5   Terbacil   2   1.0   0.42   0.46   1.2   Tracticides   2   1.1   0.42   0.46   1.2   Tracticides   2   1.5   0.62   2.74   57.4   Garbaryl   18   4.4   0.62   2.74   57.4   Garbaryl   18   4.4   0.62   2.74   57.4   Garbaryl   12   1.5   0.62   2.74   57.4   Garbaryl   12   1.5   0.62   2.74   57.4   Garbaryl   12   1.5   0.62   2.74   57.4   Garbaryl   13   1.4   1.65   2.3   2.0   Diccion   11   1.4   1.65   2.43   32.0   Diczion   11   1.4   1.65   2.43   32.0   Dicciol   5   1.3   1.12   1.52   9.0   Endosulfan   3   2.1   0.78   1.64   6.2   Esfenvalerate   35   1.9   0.04   0.07   3.1   Fenamiphos   *   1.0   2.61   2.64   0.9   Ferbutatin-oxide   1   1.3   0.65   0.91   14.0   Ferbutatin-oxide   1   1.3   0.65   0.91   14.0   Formetanate hydro.   *   1.2   0.65   0.91   14.0   Imidacloprid   *   2.1   0.06   0.13   0.1   Methoxychlor   *   3.8   2.64   10.22   0.3   Methoxyl   3   3.2   0.59   1.93   7.4   Methoxychlor   *   3.8   2.64   10.22   0.3   Methoxyl   3   3.2   0.59   1.93   7.4   Methoxychlor   *   3.8   2.64   10.22   0.3   Permethridistilate   33   1.4   28.58   41.30   1.605.6   Petroleum distillate   33   1.4   28.58   41.30   1.605.6   Petroleum distillate   3   1.4   0.62   0.29   0.12   0.7   Pringicides   5   1.2   0.29   0.12   0.7   Pringicides   5   1.4   3.1   4.8   6.98   41.8   Copper oxychloride   22   1.4   3.13   4.58   119.0   Copper oxychloride   5   1.4   3.1   4.8   6.98   41.8   Copper oxychloride   6   1.2   0.7   0.99   0.17   4.2   Perbuconazole   1   1.7   0.09   0.17   4.2   Perbuconazole   1   1.7   0.00   0.00   0.00   3/2   Propionazole   1.7   0.00   0.00   0.00   0.00   3/2   Propionazole   1.7   0.00   0.00   0.00   0.00   3/2   Propionazole   1.7   0.00							
Nort    Nort							
Oryzalin         1         1.1         1.15         1.27         1.7           Oxyfluorfen         13         1.3         0.49         0.64         10.1           Paraquat         28         1.9         0.53         1.04         35.3           Pendimethalin         3         1.0         1.85         1.95         7.4           Simazine         29         1.1         1.24         1.46         50.5         7.4           Terbacil         2         1.0         0.42         0.46         1.2           Trecticides         8         4.4         0.62         2.74         57.4           Bt (Bacillus thur.)2/         12         1.7         2.11         3.68         53.9           Chlorprifos         20         1.2         1.20         1.51         35.3           Clofentezine         8         1.1         0.12         0.14         1.3           Diazion         11         1.4         1.65         2.43         32.0           Diocofol         5         1.3         1.12         1.52         9.0           Endosulfan         3         2.1         0.78         1.64         6.2           Esfenva							
Oxyfluorfen         13         1.3         0.49         0.64         10.1           Paraquat         28         1.9         0.53         1.04         35.3         3         1.0         1.85         1.95         7.4         35.3         Pendimethalin         3         1.0         1.85         1.95         7.4         50.5         7.7         7.7         1.2         1.2         1.2         1.2         1.4         1.46         50.5         50.5         7.7         7.7         7.7         7.7         7.7         7.7         7.7         7.7         7.7         7.7         7.2         1.1         1.46         6.2         7.74         57.4							
Pendimethalin   3   1.0   1.85   1.95   7.4     Terbacil   2   1.0   0.42   0.46   1.2     Terbacil   2   1.7   2.11   3.68   53.9     Chloryyrifos   20   1.2   1.20   1.51   35.3     Chloryyrifos   20   1.2   1.20   1.51   35.3     Clofentezine   8   1.1   0.12   0.14   1.3     Diazinon   11   1.4   1.65   2.43   32.0     Dicofol   5   1.3   1.12   1.52   9.0     Endosulfan   3   2.1   0.78   1.64   6.2     Esfenvalerate   35   1.9   0.04   0.07   3.1     Fenamiphos   * 1.0   2.61   2.64   0.9     Fenbutatin-oxide   13   1.3   0.69   0.91   14.0     Formetanate hydro.   * 1.2   0.56   0.69   0.2     Hexythiazox   3   1.0   0.11   0.12   0.4     Malathion   * 2   1.3   0.10   0.11   0.12   0.4     Methoxychlor   * 3.2   0.59   0.98   0.91   0.1     Methoxychlor   * 3.8   2.64   10.22   0.3     Permethrin   23   2.5   0.22   0.57   1.5     Pertoleum distillate   33   1.4   28.58   41.30   1.605     Phosmet   45   3.7   1.23   4.62   249.5     Propargite   * 1.2   0.59   0.36   1.0     Spinosad   5   1.2   0.09   0.12   0.7     Fundidahe   2   1.2   0.29   0.36   1.0     Spinosad   5   1.2   0.99   0.36   1.0     Spinosad   5   1.3   0.16   0.20   0.8     Acouystrobin   3   1.3   0.16   0.20   0.8     Acouystrobin   3   1.3   0.16   0.20   0.36   1.0     Spinosad   5   1.2   0.99   0.12   0.7     Prungicides   Acouystrobin   3   1.3   0.16   0.20   0.36   1.0     Spinosad   5   1.2   0.99   0.12   0.7     Spinosad   5   1.2   0.99   0.12   0.7     Spinosad   5   1.3   0.16   0.20   0.30   0.55   0.6     Copper oxychlo sul   3   0.3   0.5   0.6							
Simazine							
Teseticides							
Name							
Bet (Bacillus thur.)2/							
Carbary				0.62	2.74	57.4	
Chlorpyrifos				0 11	2 60	E2 0	
Clofentezine   8							
Dicofol   5		8		0.12		1.3	
Endosulfan 3 2.1 0.78 1.64 6.2 Esfenvalerate 35 1.9 0.04 0.07 3.1 Fenamiphos * 1.0 2.61 2.64 0.9 Fenbutatin-oxide 13 1.3 0.69 0.91 14.0 Formetanate hydro. * 1.2 0.56 0.69 0.91 14.0 Formetanate hydro. * 1.2 0.56 0.69 0.2 Lexythiazox 3 1.0 0.11 0.12 0.4 Imidacloprid * 2.1 0.06 0.13 0.1 Malathion * 3.9 2.12 8.33 0.3 Methidathion 2 1.3 1.40 1.82 5.2 Methomyl 3 3.2 0.59 1.93 7.4 Methoxychlor * 3.8 2.64 10.22 0.3 Permethrin 23 2.5 0.22 0.57 15.6 Phosmet 45 3.7 1.23 4.62 249.5 Propargite * 1.2 1.54 1.99 1.1 Pyridaben 2 1.2 0.29 0.36 1.0 Spinosad 5 1.2 0.09 0.12 0.7 Fungicides 2 1.2 0.09 0.12 0.7 Fungicides 2 2.0 0.9 0.12 0.7 Fungicides 2 2.1 0.9 0.12 0.7 Fungicides 2 2.1 0.2 0.99 0.36 1.0 Captan 2 4 3.4 1.52 5.2 1.1 49.6 Chlorothalonil 13 1.2 1.78 2.20 3.5 6.6 Captan 2 4 3.4 1.52 5.2 1.1 49.6 Chlorothalonil 13 1.2 1.78 2.20 3.5 6.98 41.8 Copper oxychlo. sul. 3 2.3 1.52 3.57 11.8 Copper oxychlo. sul. 3 2.3 1.52 3.57 11.8 Copper oxychloride 4 1.0 2.0 0.23 1.5 Copper oxychloride 5 1.4 4.89 6.98 41.8 Copper oxychloride 5 1.4 4.89 6.98 41.8 Copper oxychloride 5 1.4 4.89 6.98 41.8 Copper oxychloride 7 1.0 2.0 2.2 3.5 7 1.8 Ferbam 1 1.0 2.0 2.2 3.5 7 1.2 9 2.3 Cyprodinil 13 1.4 0.22 0.32 5.1 1.9 Cyprodinil 13 1.4 0.22 0.32 5.1 1.9 Cyprodinil 13 1.4 0.22 0.32 5.1 1.9 Cyprodinil 13 1.4 0.22 0.32 1.5 2.1 1.9 Cyprodinil 13 1.4 0.22 0.32 1.5 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1							
Esfenvalerate		5					
Fenbutatin-oxide 13 1.3 0.69 0.91 14.0 Formetanate hydro. * 1.2 0.56 0.69 0.21 Formetanate hydro. * 1.2 0.56 0.69 0.2 Hexythiazox 3 1.0 0.11 0.12 0.4 Imidacloprid * 2.1 0.06 0.13 0.1 Malathion * 3.9 2.12 8.33 0.3 Methidathion 2 1.3 1.40 1.82 5.2 Methomyl 3 3.2 0.59 1.93 7.4 Methoxychlor * 3.8 2.64 10.22 0.3 Permethrin 23 2.5 0.22 0.57 15.6 Phosmet 45 3.7 1.23 4.62 249.5 Propargite * 1.2 1.54 1.99 1.1 Pyridaben 2 1.2 0.59 0.36 1.0 Spinosad 5 1.2 0.09 0.12 0.7  Fungicides  Azoxystrobin 3 1.3 0.16 0.20 0.8 Basic copper sulfate 6 1.2 8.94 11.04 76.6 Benomyl 9 1.4 0.38 0.53 5.6 Calcium polysulfide * 2.3 0.98 2.28 2.6 Captan 24 3.4 1.52 5.21 149.6 Chlorothalonil 13 1.2 1.78 2.20 35.5 Copper oxychlo. sul. 3 2.3 1.52 3.57 11.8 Copper oxychloride * 1.0 2.04 2.04 0.8 Copper resinate 6 11.1 0.02 0.23 1.5 Copper poxide 1 1 0.25 1.29 2.3 Cyprodinil 13 1.4 0.22 0.33 1.5 Copper sulfate 1 1 0.02 0.23 1.5 Ferbam 4 1.0 0.20 0.23 1.5 Ferbam 5 1.4 0.20 0.20 3.5 Ferbam 6 1.1 0.02 0.23 1.5 Ferbam 7 1.1 0.06 0.06 3.7 Ferbam 8 1.1 0.06 0.06 3.7 Ferbam 9 1.4 0.62 0.86 1.9.5 Myclobutanil 8 2.8 0.77 0.21 2.1 Cyprodinil 13 1.4 0.22 0.33 1.5 Ferbam 1 1.0 0.06 0.06 3.7 Ferbam 1 1.0 0.06 0.06 3.7 Ferbam 1 1.0 0.07 0.09 0.17 0.2 Ferbam 1 1.0 0.00 0.00 0.00 0.7 Ferbam 1 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00							
Formetanate hydro.							
Hexythiazox							
Imidacloprid							
Malathion         *         3.9         2.12         8.33         0.3           Methomyl         3         3.2         0.59         1.93         7.4           Methomyl         3         3.2         0.59         1.93         7.4           Methoxychlor         *         3.8         2.64         10.22         0.3           Permethrin         23         2.5         0.22         0.57         15.6           Petroleum distillate         33         1.4         28.58         41.30         1,605.6           Phosmet         45         3.7         1.23         4.62         249.5           Propargite         *         1.2         0.29         0.36         1.0           Spinosad         5         1.2         0.09         0.12         0.7            5         1.2         0.09         0.12         0.7            6         1.2         8.94         11.04         76.6           Captan         24         3.4         1.52         5.21         149.6           Chlorothalonil         13         1.2         1.78         2.20         35.5           Copper hydroxide         <							
Methomyl         3         3.2         0.59         1.93         7.4           Methoxychlor         *         3.8         2.64         10.22         0.3           Permethrin         23         2.5         0.22         0.57         15.6           Petroleum distillate         33         1.4         28.58         41.30         1,605.6           Phosmet         *         1.2         1.24         1.99         1.1           Pyridaben         2         1.2         0.29         0.36         1.0           Spinosad         5         1.2         0.09         0.12         0.7           Fungicides           **         1.2         0.99         0.12         0.7           Pasasic copper sulfate         6         1.2         8.94         11.04         76.6           Benomyl         9         1.4         0.38         0.53         5.6           Calcium polysulfide         *         2.3         0.98         2.28         2.6           Captan         24         3.4         1.52         5.21         149.6           Chlorothalonil         13         1.2         1.78         2.20         35.5<		*					
Methoxychlor         *         3.8         2.64         10.22         0.3           Permethrin         23         2.5         0.22         0.57         15.6           Petroleum distillate         33         1.4         28.58         41.30         1,605.6           Phosmet         45         3.7         1.23         4.62         249.5           Propargite         *         1.2         1.54         1.99         1.1           Pyridaben         2         1.2         0.29         0.36         1.0           Spinosad         5         1.2         0.09         0.12         0.7           Fungicides           Azoxystrobin         3         1.3         0.16         0.20         0.8           Basic copper sulfate         6         1.2         8.94         11.04         76.6           Benomyl         9         1.4         0.38         0.53         5.6           Captan         24         3.4         1.52         5.21         149.6           Chlorothalonil         13         1.2         1.78         2.20         35.5           Copper hydroxide         22         1.4         3.13         4.58 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Permethrin   23							
Petroleum distillate							
Propargite   *   1.2   1.54   1.99   1.1							
Pyridaben 2 1.2 0.29 0.36 1.0 Spinosad 5 1.2 0.09 0.12 0.7  Fungicides  Azoxystrobin 3 1.3 0.16 0.20 0.8  Basic copper sulfate 6 1.2 8.94 11.04 76.6  Benomyl 9 1.4 0.38 0.53 5.6  Calcium polysulfide * 2.3 0.98 2.28 2.6  Captan 24 3.4 1.52 5.21 149.6  Chlorothalonil 13 1.2 1.78 2.20 35.5  Copper hydroxide 22 1.4 3.13 4.58 119.0  Copper oxide 5 1.4 4.89 6.98 41.8  Copper oxychlo. sul. 3 2.3 1.52 3.57 11.8  Copper oxychloride * 1.0 2.04 2.04 0.8  Copper sulfate 1 1.0 2.04 2.04 0.8  Copper sulfate 1 1.0 1.25 1.29 2.3  Cyprodinil 13 1.4 0.22 0.32 5.1  Dodine 1 4.1 0.32 1.33 2.1  Fenbuconazole 21 1.7 0.09 0.17 4.2  Ferbam * 1.1 2.04 2.42 1.7  Iprodione 19 1.4 0.62 0.86 19.5  Myclobutanil 8 2.8 0.07 0.21 2.1  Cxytetracycline 4 4.7 0.10 0.46 2.4  Propiconazole 34 1.8 0.10 0.19 7.7  Sulfur 62 4.9 7.66 37.65 2,802.9  Tebuconazole 12 1.5 0.14 0.21 2.9  Thiophanate-methyl * 2.0 0.74 1.52 1.7  Iprodocadecadien (E,Z) 4/ * 1.1  Octadecadien (E,Z) 4/ * 1.1  Octadecadien (E,Z) 4/ * 1.1  Octadecadien (Z,Z) * 1.1 0.006 0.006 3/  Strychnine * 1.2 0.005 0.006 3/  Strychnine * 1.2 0.005 0.006 3/  Strychnine * 1.2 0.005 0.006 3/  S-8-Dodecan acetate 11 1.6 0.03 0.05 0.66							
Spinosad   5							
Name							
Basic copper sulfate   6				7.77	* * * = =		
Benomyl	Azoxystrobin						
Calcium polysulfide							
Captan		*					
Copper hydroxide         22         1.4         3.13         4.58         119.0           Copper oxide         5         1.4         4.89         6.98         41.8           Copper oxychlo. sul.         3         2.3         1.52         3.57         11.8           Copper oxychloride         *         1.0         2.04         2.04         0.8           Copper resinate         6         11.1         0.02         0.23         1.5           Copper sulfate         1         1.0         1.25         1.29         2.3           Cyprodinil         13         1.4         0.22         0.32         5.1           Dodine         1         4.1         0.32         1.33         2.1           Fenbuconazole         21         1.7         0.09         0.17         4.2           Ferbam         *         1.1         2.04         2.42         1.7           Iprodione         19         1.4         0.62         0.86         19.5           Myclobutanil         8         2.8         0.07         0.21         2.1           Oxytetracycline         4         4.7         0.10         0.46         2.4           P		24					
Copper oxide         5         1.4         4.89         6.98         41.8           Copper oxychlo. sul.         3         2.3         1.52         3.57         11.8           Copper oxychloride         *         1.0         2.04         2.04         0.8           Copper resinate         6         11.1         0.02         0.23         1.5           Copper sulfate         1         1.0         1.25         1.29         2.3           Cyprodinil         13         1.4         0.22         0.32         5.1           Dodine         1         4.1         0.32         1.33         2.1           Fenbuconazole         21         1.7         0.09         0.17         4.2           Ferbam         *         1.1         2.04         2.42         1.7           Iprodione         19         1.4         0.62         0.86         19.5           Myclobutanil         8         2.8         0.07         0.21         2.1           Oxytetracycline         4         4.7         0.10         0.46         2.4           Propiconazole         34         1.8         0.10         0.19         7.7           Sulfur							
Copper oxychlo. sul. 3 2.3 1.52 3.57 11.8 Copper oxychloride * 1.0 2.04 2.04 0.8 Copper resinate 6 11.1 0.02 0.23 1.5 Copper sulfate 1 1.0 1.25 1.29 2.3 Cyprodinil 13 1.4 0.22 0.32 5.1 Dodine 1 4.1 0.32 1.33 2.1 Fenbuconazole 21 1.7 0.09 0.17 4.2 Ferbam * 1.1 2.04 2.42 1.7 Iprodione 19 1.4 0.62 0.86 19.5 Myclobutanil 8 2.8 0.07 0.21 2.1 Oxytetracycline 4 4.7 0.10 0.46 2.4 Propiconazole 34 1.8 0.10 0.19 7.7 Sulfur 62 4.9 7.66 37.65 2,802.9 Tebuconazole 12 1.5 0.14 0.21 2.9 Thiophanate-methyl * 2.0 0.74 1.52 1.7 Ziram 19 1.5 4.31 6.46 145.1 Other Chemicals  E-8-Dodecenyl acetate 11 1.6 0.002 0.003 3/Octadecadien (E,Z) 4/ * 1.1 0.006 0.006 3/Strychnine * 1.2 0.005 0.006 3/Strychnine * 1.2 0.005 0.006 3/Strychnine * 1.2 0.005 0.006 3/S-8-Dodecen acetate 11 1.6 0.003 0.05 0.6							
Copper oxychloride         *         1.0         2.04         2.04         0.8           Copper resinate         6         11.1         0.02         0.23         1.5           Copper sulfate         1         1.0         1.25         1.29         2.3           Cyprodinil         13         1.4         0.22         0.32         5.1           Dodine         1         4.1         0.32         1.33         2.1           Fenbuconazole         21         1.7         0.09         0.17         4.2           Ferbam         *         1.1         2.04         2.42         1.7           Iprodione         19         1.4         0.62         0.86         19.5           Myclobutanil         8         2.8         0.07         0.21         2.1           Oxytetracycline         4         4.7         0.10         0.46         2.4           Propiconazole         34         1.8         0.10         0.19         7.7           Sulfur         62         4.9         7.66         37.65         2,802.9           Tebuconazole         12         1.5         0.14         0.21         2.9           Thiophanate-met							
Copper resinate         6         11.1         0.02         0.23         1.5           Copper sulfate         1         1.0         1.25         1.29         2.3           Cyprodinil         13         1.4         0.22         0.32         5.1           Dodine         1         4.1         0.32         1.33         2.1           Fenbuconazole         21         1.7         0.09         0.17         4.2           Ferbam         *         1.1         2.04         2.42         1.7           Iprodione         19         1.4         0.62         0.86         19.5           Myclobutanil         8         2.8         0.07         0.21         2.1           Oxytetracycline         4         4.7         0.10         0.46         2.4           Propiconazole         34         1.8         0.10         0.19         7.7           Sulfur         62         4.9         7.66         37.65         2,802.9           Tebuconazole         12         1.5         0.14         0.21         2.9           Thiophanate-methyl         *         2.0         0.74         1.52         1.7           Ziram							
Cyprodinil         13         1.4         0.22         0.32         5.1           Dodine         1         4.1         0.32         1.33         2.1           Fenbuconazole         21         1.7         0.09         0.17         4.2           Ferbam         *         1.1         2.04         2.42         1.7           Iprodione         19         1.4         0.62         0.86         19.5           Myclobutanil         8         2.8         0.07         0.21         2.1           Oxytetracycline         4         4.7         0.10         0.46         2.4           Propiconazole         34         1.8         0.10         0.19         7.7           Sulfur         62         4.9         7.66         37.65         2,802.9           Tebuconazole         12         1.5         0.14         0.21         2.9           Thiophanate-methyl         *         2.0         0.74         1.52         1.7           Ziram         19         1.5         4.31         6.46         145.1           Other Chemicals           E-8-Dodecenyl acetate         11         1.6         0.002         0.003	Copper resinate						
Dodine 1 4.1 0.32 1.33 2.1 Fenbuconazole 21 1.7 0.09 0.17 4.2 Ferbam * 1.1 2.04 2.42 1.7 Iprodione 19 1.4 0.62 0.86 19.5 Myclobutanil 8 2.8 0.07 0.21 2.1 Oxytetracycline 4 4.7 0.10 0.46 2.4 Propiconazole 34 1.8 0.10 0.19 7.7 Sulfur 62 4.9 7.66 37.65 2,802.9 Tebuconazole 12 1.5 0.14 0.21 2.9 Thiophanate-methyl * 2.0 0.74 1.52 1.7 Ziram 19 1.5 4.31 6.46 145.1  Other Chemicals  E-8-Dodecenyl acetate 11 1.6 0.002 0.003 3/ Octadecadien (E,Z) 4/ * 1.1 Octadecadien (Z,Z) * 1.1 0.006 0.006 3/ Strychnine * 1.2 0.005 0.006 3/ Z-8-Dodecen acetate 11 1.6 0.03 0.05 0.6							
Fenbuconazole       21       1.7       0.09       0.17       4.2         Ferbam       *       1.1       2.04       2.42       1.7         Iprodione       19       1.4       0.62       0.86       19.5         Myclobutanil       8       2.8       0.07       0.21       2.1         Oxytetracycline       4       4.7       0.10       0.46       2.4         Propiconazole       34       1.8       0.10       0.19       7.7         Sulfur       62       4.9       7.66       37.65       2,802.9         Tebuconazole       12       1.5       0.14       0.21       2.9         Thiophanate-methyl       *       2.0       0.74       1.52       1.7         Ziram       19       1.5       4.31       6.46       145.1         Other Chemicals         E-8-Dodecenyl acetate       11       1.6       0.002       0.003       3/         Octadecadien (E,Z) 4/       *       1.1       0.006       0.006       3/         Strychnine       *       1.2       0.005       0.006       3/         Z-8-Dodecen acetate       11       1.6       0.03							
Time							
Myclobutanil         8         2.8         0.07         0.21         2.1           Oxytetracycline         4         4.7         0.10         0.46         2.4           Propiconazole         34         1.8         0.10         0.19         7.7           Sulfur         62         4.9         7.66         37.65         2,802.9           Tebuconazole         12         1.5         0.14         0.21         2.9           Thiophanate-methyl         *         2.0         0.74         1.52         1.7           Ziram         19         1.5         4.31         6.46         145.1           Other Chemicals           E-8-Dodecenyl acetate         11         1.6         0.002         0.003         3/           Octadecadien (E,Z) 4/         *         1.1         0.006         0.003         3/           Strychnine         *         1.2         0.005         0.006         3/           Z-8-Dodecanol 4/         11         1.6         0.03         0.05         0.6							
Oxytetracycline         4         4.7         0.10         0.46         2.4           Propiconazole         34         1.8         0.10         0.19         7.7           Sulfur         62         4.9         7.66         37.65         2,802.9           Tebuconazole         12         1.5         0.14         0.21         2.9           Thiophanate-methyl         *         2.0         0.74         1.52         1.7           Ziram         19         1.5         4.31         6.46         145.1           Other Chemicals           E-8-Dodecenyl acetate         11         1.6         0.002         0.003         3/           Octadecadien (E,Z) 4/         *         1.1         0.006         0.003         3/           Otypical acetate         *         1.1         0.006         0.006         3/           Strychnine         *         1.2         0.005         0.006         3/           Z-8-Dodecanol 4/         11         1.6         0.03         0.05         0.6							
Propiconazole         34         1.8         0.10         0.19         7.7           Sulfur         62         4.9         7.66         37.65         2,802.9           Tebuconazole         12         1.5         0.14         0.21         2.9           Thiophanate-methyl         *         2.0         0.74         1.52         1.7           Ziram         19         1.5         4.31         6.46         145.1           Other Chemicals           E-8-Dodecenyl acetate         11         1.6         0.002         0.003         3/           Octadecadien (E,Z) 4/         *         1.1         0.006         0.003         3/           Strychnine         *         1.2         0.005         0.006         3/           Z-8-Dodecanol 4/         11         1.6         0.03         0.05         0.6							
Tebuconazole 12 1.5 0.14 0.21 2.9 Thiophanate-methyl * 2.0 0.74 1.52 1.7 Ziram 19 1.5 4.31 6.46 145.1  Other Chemicals  E-8-Dodecenyl acetate 11 1.6 0.002 0.003 3/ Octadecadien (E,Z) 4/ * 1.1 0.006 0.006 3/ Strychnine * 1.2 0.005 0.006 3/ Z-8-Dodecanol 4/ 11 1.6  3/ Z-8-Dodecen acetate 11 1.6 0.03 0.05 0.6							
Thiophanate-methyl							
Time							
Other Chemicals           E-8-Dodecenyl acetate         11         1.6         0.002         0.003         3/           Octadecadien (E,Z) 4/         *         1.1         3/           Octadecadien (Z,Z)         *         1.1         0.006         0.006         3/           Strychnine         *         1.2         0.005         0.006         3/           Z-8-Dodecanol 4/         11         1.6         3/           Z-8-Dodecen acetate         11         1.6         0.03         0.05         0.6							
E-8-Dodecenyl acetate 11 1.6 0.002 0.003 3/ Octadecadien (E,Z) 4/ * 1.1 3/ Octadecadien (Z,Z) * 1.1 0.006 0.006 3/ Strychnine * 1.2 0.005 0.006 3/ Z-8-Dodecanol 4/ 11 1.6 3/ Z-8-Dodecen acetate 11 1.6 0.03 0.05 0.6							
Octadecadien (Z,Z) * 1.1 0.006 0.006 3/ Strychnine * 1.2 0.005 0.006 3/ Z-8-Dodecanol 4/ 11 1.6 3/ Z-8-Dodecen acetate 11 1.6 0.03 0.05 0.6				0.002	0.003		
Strychnine * 1.2 0.005 0.006 3/ Z-8-Dodecanol 4/ 11 1.6 3/ Z-8-Dodecen acetate 11 1.6 0.03 0.05 0.6				0 006	0 006		
Z-8-Dodecanol 4/ 11 1.6 3/ Z-8-Dodecen acetate 11 1.6 0.03 0.05 0.6							
<u>Z-8-Dodecen acetate</u> 11 1.6 0.03 0.05 0.6				0.005	0.000		
	Z-8-Dodecen acetate			0.03	0.05		

Area applied is less than one percent.
Bearing acres in 2001 for the 5 program states were 119,500 acres. States included are CA, GA, MI, NJ and SC.
Rates and total applied are not available because amounts of active ingredient are not comparable between products.
Total applied is less than 50 lbs.
Rates and total applied are not available because amounts of active ingredient are too small.

<sup>1/</sup> 2/ 3/ 4/

Peaches: Agricultural Chemical Applications, New Jersey, 2001 1/

1 eaches: 7	Peaches: Agricultural Chemical Applications, New Jersey, 2001 1/					
Agricultural Chemical	Area Applied	Applications	Rate Per Application	Rate Per Crop Year	Total Applied	
	Percent	Number	Pounds p	er Acre	1000 lbs	
Herbicides						
Diuron	34	1.0	1.09	1.16	3.1	
Glyphosate	17	1.0	1.02	1.07	1.5	
Norflurazon	26	1.0	2.29	2.29	4.8	
Paraquat	19	1.1	0.64	0.75	1.1	
Simazine	13	1.0	1.25	1.25	1.3	
Terbacil	22	1.1	0.47	0.53	0.9	
Insecticides						
Azinphos-methyl	88	8.1	0.44	3.61	25.5	
Carbaryl	9	1.9	1.00	1.96	1.3	
Chlorpyrifos	15	1.1	0.83	0.92	1.1	
Endosulfan	4	2.4	1.38	3.40	1.0	
Esfenvalerate	26	5.1	0.02	0.08	0.2	
Methomyl	27	4.6	0.59	2.76	5.9	
Petroleum distillate	9	1.6	14.90	24.17	16.7	
Phosmet	59	2.8	0.84	2.41	11.4	
Fungicides						
Benomyl	6	3.1	0.34	1.06	0.5	
Captan	76	6.0	1.39	8.43	51.4	
Chlorothalonil	49	1.6	1.34	2.21	8.7	
Copper resinate	85	11.1	0.02	0.23	1.5	
Fenbuconazole	13	2.7	0.07	0.20	0.2	
Myclobutanil	52	4.7	0.06	0.27	1.1	
Propiconazole	82	3.2	0.08	0.26	1.7	
Sulfur	93	8.6	4.46	38.76	289.1	
Ziram	45	1.0	2.85	2.89	10.4	

<sup>1/</sup> Bearing acres in 2001 for New Jersey were 8,000 acres.



For a copy of the finished report or to obtain other agricultural statistics, visit the New Jersey Agricultural Statistics Service website at <a href="https://www.nass.usda.gov/nj">www.nass.usda.gov/nj</a> or call 1-800-328-0179.

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